

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/IB2004/002584

**A. CLASSIFICATION OF SUBJECT MATTER**  
IPC 7 G08G1/16

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 G08G G01C H04B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 428 544 A (SHYU JIA-MING) 27 June 1995 (1995-06-27) figures 1,3 column 1, lines 58-66 column 2, lines 19-43 column 3, lines 30-59 column 4, line 18 ----- US 4 706 086 A (PANIZZA ETTORE) 10 November 1987 (1987-11-10) figures 2-5 column 2, lines 12-18,60-65 column 3, lines 1-18 column 4, lines 22-52 ----- -/-	1-11
X		1-11

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

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- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
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Date of the actual completion of the international search

18 October 2004

Date of mailing of the International search report

02/11/2004

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6 236 337 B1 (IDLER HORST ET AL) 22 May 2001 (2001-05-22) figures 1,2 column 1, lines 30-55 column 2, lines 29-67 column 3, lines 24-26 -----	1-11
X	DE 199 48 733 A (VOLKSWAGENWERK AG) 12 April 2001 (2001-04-12) figure 1 column 2, lines 10-27, 45-65 -----	1-11
X	US 6 369 720 B1 (WILHELM MICHAEL) 9 April 2002 (2002-04-09) figures 1,2 column 2, lines 25,26,57-65 -----	1-11
X	US 6 397 141 B1 (BINNIG GERD) 28 May 2002 (2002-05-28) figure 1 column 2, lines 39-42 column 3, lines 30-65 -----	1-11

**INTERNATIONAL SEARCH REPORT**

Information on patent family members

International Application No

PCT/IB2004/002584

Patent document cited in search report	Publication date	Patent family member(s)			Publication date
US 5428544	A 27-06-1995	NONE			
US 4706086	A 10-11-1987	IT	1183820 B		22-10-1987
		DE	3668088 D1		08-02-1990
		EP	0201461 A1		17-12-1986
		JP	1953986 C		28-07-1995
		JP	6082439 B		19-10-1994
		JP	61256500 A		14-11-1986
US 6236337	B1 22-05-2001	DE	19707537 A1		27-08-1998
		AU	740232 B2		01-11-2001
		AU	5539098 A		27-08-1998
		CA	2227651 A1		25-08-1998
		EP	0860954 A1		26-08-1998
DE 19948733	A 12-04-2001	DE	19948733 A1		12-04-2001
US 6369720	B1 09-04-2002	DE	19822914 A1		25-11-1999
		DE	59910319 D1		30-09-2004
		EP	0959442 A2		24-11-1999
		JP	2000030178 A		28-01-2000
US 6397141	B1 28-05-2002	DE	19750942 A1		20-05-1999
		DE	59803467 D1		25-04-2002
		WO	9926212 A1		27-05-1999
		EP	1032928 A1		06-09-2000
		JP	2001523871 T		27-11-2001
		US	2002082768 A1		27-06-2002